66TH CONFERENCE ON EXCEPTIONAL CHILDREN

What Can CEDARS Do For You?

Terra Dominguez
Robin Lucarelli
Kelley Blas

SELF-ASSESSMENT:
A Journey of Change

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What is CEDARS?

Common **E**ducation **D**ata **A**nalysis **and R**eporting **S**ystem

- *An "Umbrella Term" for three systems:*
  - UID Staff
  - UID Student
  - CEDARS Data Warehouse (**CDW**)

Today's presentation is on the **CDW**

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The CDW IS

- Historical data for trending and analysis
  (09-10 through 15-16)
- A collection of data from multiple NC DPI authoritative sources
- Used for Federal, state & local level reporting
- Accessible to State, LEA & School level staff
- Secure - authenticate using NCID

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What Systems Feed CEDARS?

- EDDIE
- PowerSchool
- CECAS (Exceptional Children)
- Accountability
- UID Staff
- Licensure

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About the Data

CEDARS does not apply any business rules to the data other than data validation.

You see data that came from the authoritative source systems.

For example, CEDARS does not determine:

- A student's status in special programs (LEP, Immigrant, Migrant, etc.). That determination is made at the source.

- The performance level of a student's assessment. That determination is made at the source (Accountability).

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Student & Staff - Sensitive Data

- Collected at the **Detail** level, meaning records specific to the individual student and staff member are collected

- **PII** – 'Personally Identifiable Information' and must be protected
  - No detail level data is used for Federal Reporting
  - FERPA guidelines are enforced and dictate how any detail level data is to be used

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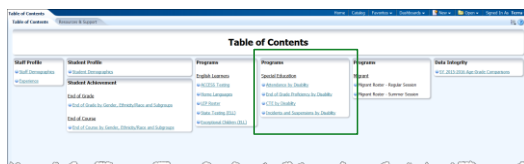*A Journey of Change*
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Log into the CDW using NCID

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Navigating Dashboards

Please note: this slide and the subsequent 4 slides will reflect actual dashboards which show the functionality of a single program area.

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Attendance Reports by Disability

Change the view using Select Report

Drill deeper into the Report using the links

What are Subject Areas?

- Buckets of related data elements (Attendance, Assessments, Discipline, etc.) from which reports are created using the CEDARS reporting tool, OBIEE.
  - The presentation of each 'bucket' in OBIEE is based on underlying database tables and varies across subject areas. Ability to drill down to student level data depends on the subject area.
- 13 visible at LEA level

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Subject Areas Contain

- Most Recent and Point-in-Time Data
- Facts
- Dimensions

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What is 'Most Recent' and 'Point-in-Time'?

- **Most Recent** data is cumulative and updated throughout the year.
  - In most cases, it reflects data from the beginning of a school year up through the last day of the school year or the last data collection.

- **Point-in-Time** data is a snapshot of data based on a given date.
  - When using Point-in-Time data, it is important to include the element 'Snapshot Date'.
  - It is also important to understand what snapshot dates were used when the data is collected

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What are Facts?

- A Fact folder contains data elements relative to the Subject Areas and pre-calculated Measures. Measures are identified by the orange can-like icon and they are numeric. Each measure has its own aggregation rule such as SUM, AVG, MIN or MAX. Examples of measures:
    - # of Unique Schools
    - # of Unique Students
    - AVG Number of Years of Experience
    - Total FTE

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What are Dimensions?

- Dimension folders contain data elements that further describe the items contained in the Fact folders. Dimension data elements are used to filter or qualify the results of an Analysis (query).
  Examples of Dimensions:
    - Gender Description
    - Gender Code
    - Enrollment Description
    - Enrollment Code

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CDW Subject Areas (Alpha Order)

- Assessment Data
- Career and Technical
- Course and Grades Data
- Cross Programs Analysis
- Finance
- Individual Programs Data
- Membership
- School Enrollment Data
- School Safety
- SEA, LEA and School Information
- Staff Data
- Student Attendance Summary
- Student Data

Assessment Data

Contains assessments for ABC, CTE, ELP and N&D (N&D Assessments no longer collected after 2012-2013.)

Date elements include:
• Test Type (*EOC, EOG, CTE, EL, N&D*)
• Test Name
• Test Subject
• Status (*status of the student in regards to the assessment*)
• Full Academic Year in District/School (*Accountability*)
• Testing Accommodation (*Accountability*)
• First Time Assessed (*EL*)
• Test Booklet ID (*EL*)

Assessment Data…

• Performance Level
 (*performance indicator determined by program*)
• Scale Scores
 (*Accountability, CTE, LEP*)
• Lexile and Quantile Scores
 (*Accountability*)
• Mastery
 (*N&D, LEP*)
• Numeric Score
 (*LEP*)
• Raw Score
 (*LEP*)

Course and Grades Data

Data Elements Include:

Course Catalog
• Course Name and Course Code, Department, Term,
• Number of Credits
• Academic Level
• Indicators
  – Honors, Special Program, Advanced Placement, Remedial, Basic, Special Ed, Non-Traditional Gender
• GPA Applicability Code

Course and Grades Data…

Course Instructor Snapshot
Connects Instructor to Course
• Identifies Primary Instructor and up to 5 Other Instructors

Student Course Enrollment
Connects Student to Course Instructor Snapshot and Student Grades

Student Grades
Final Grades
• Numeric/Alpha Grade
• GPA Impact
• Credits Earned

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School Safety

• Incident
  Incident number, date, most severe infraction

• Offender Type
  Student, staff, etc.

• Infraction Type

• Disciplinary Action

• Victim Type
  Does not include personally identifiable information

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Student Data

Appears as Dimension in most subject areas
• Student and Student Snapshot
  – Demographic data
  – Program participation data
    • Homeless,
    • Immigrant,
    • LEP,
    • Migrant,
    • Special Education
• Sources of student data are PowerSchool, CECAS, and Accountability

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A Bit About Data Quality – Student Data

- Student IDs under 30000 (IDs mistakenly created by the PowerSchool application) will not load to the CDW
- Invalid/missing:
  - Birthdates
  - Race/Ethnicity
  - Hispanic Indicator
  - Gender
  - State, District, School Entry Dates
  - State Code (NC)
  - Course of Study Code
  - Expected Graduation Year
- Records rejected by the CDW must be corrected in PowerSchool prior to the next submission; otherwise, related student data will fail to load.
- Your data set is not complete

- Schools created with the school numbers 001 through 291 are not collected in the CDW

- Students who are offered services by programs but are not in a traditional school (including PKs) must be in the associate program school.

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Working With the CDW Data Dictionary

- Spreadsheet containing location, source and description of each data element

  Filter by:
  - Subject Area
  - Sub-folder
  - Data Element
  - Authoritative Source
  - Definition

1. **Download** the Spread Sheet
2. **Enable** the spreadsheet

How to user filters: http://www.excel-easy.com/data-analysis/filter.html

CDW Data Dictionary located:
http://www.ncpublicschools.org/cedars/reporting/documentation/

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Resources

- <u>CEDARS Website</u>:
  - ❑ http://www.ncpublicschools.org/cedars/
  - ❑ http://www.ncpublicschools.org/cedars/reporting/registration/
  - ❑ http://www.ncpublicschools.org/cedars/reporting/documentation/

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Use this section to practice your new Subject Area knowledge

PRACTICAL APPLICATION

Guidelines For Building a Report

- Must use Firefox
- Must use Filters
  - Prove the query works before expanding to multiple years, schools, or large sets of data like assessments, course enrollments, grades etc.
  1. Start with the **Reporting Year** or **Snapshot Date** data element
  2. Further narrow by **School Number**

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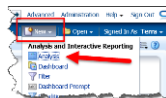*A Journey of Change*   66TH CONFERENCE ON EXCEPTIONAL CHILDREN

Beginning an Analysis

'Analysis' is the term/function that is used in OBIEE to begin a report.

1. To navigate to the Subject Areas for each new report, use the **New** drop-down, located at the top right corner of the screen.
2. Click **Analysis**.

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Beginning an Analysis…

3. From the **Select Subject Area** list, click the applicable subject area.

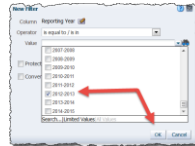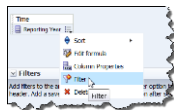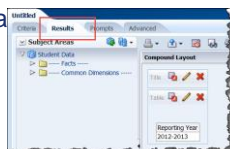4. An **Untitled** analysis screen opens to the **Criteria** sub-tab

Filtering Data Elements

• Filters must be applied to the data element from the **Criteria** sub-tab. The Criteria sub-tab is the first screen when building a new report.

Viewing Results

• The **Results** sub-tab displays the data selected from the Criteria sub-tab.

• Clicking from Criteria Results is easy.

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Saving an Analysis

1. From the right side of the screen, click the **Save As** icon.

2. Click **My Folders**.
3. Type a meaningful name.
4. Click **Ok**.

Practical Application – Schools List

1. Double click **Most Recent School Information**, select:
   • LEA Number, School Number, School Address 1, School Address 2, School Zip Code, School Operational Status Description, School Program Type, School Type, Vocation School, School Web Site URL
2. Click **Results**

3. Click the **Save As** icon
   a. Click **My Folders**
   b. Type a meaningful name in the **Name** field
   c. Click **Ok**

Practical Application - Student Data

1. Double click **Common Dimensions**, double click **Time**, double click **Reporting Year**.
2. From the **Selected Columns** section, hover over the bottom right of the data element. **Filter** by 2012-13.
3. Double click **School Information**, double click **School Name**.
4. Double click **Facts.** Open either the Most Recent Student Information *or* the Point in Time Student Information and double click **Gender Description** and **# of Unique Students**.
5. Click **Results**.

Practical Application – Student Attendance Summary

1. Double click **Dimensions**, double click **Time Start Date**. Double click **Reporting Year**. **Filter** by 2012-13.
2. Double click **School Information**, double click **School Name**. **Filter** by School.
3. Double click **Facts**, double click **Monthly Attendance for PK-13 Students**.
4. Double click **or** drag and drop the following fields: **Days Enrolled**, **Days Present**, **Days Absent Total** and **# of Unique Students**.
5. Click **Results**.

Tip: For this report, you can click on the school name to drill down and see the Student ID associated with each record.

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Practical Application – Assessment Data

1. Double click **Dimensions**, Double click **Time Start Date**. Double click **Reporting Year**. **Filter** by 2012-13.
2. Double click **School Information** (Testing), double click **School Name**. **Filter** by School.
3. Double click **Assessment Item Information** and double click **Assessment Name** and **Score Type**.
4. Double click **Facts**, double click **Assessments (ABC)**.
5. Double click **or** drag and drop the following fields: **# of Non Proficient Students** and **# of Proficient Students**.
6. Click **Results**.

Tip: For this report, once you view the report and have seen the score type, you can go back to the Facts folder and add in scores such as Lexile, Quantile and Scale scores.

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Thank you!

Terra Dominguez
Division of Data Research & Federal Policy
Functional System Analyst
919.807.3272
Terra.Dominguez@dpi.nc.gov
&
Robin Lucarelli
Division of Data Research & Federal Policy
Technical Support Specialist
919.807.4159
robin.Lucarelli@dpi.nc.gov

http://www.ncpublicschools.org/cedars/

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